

FIG. 2

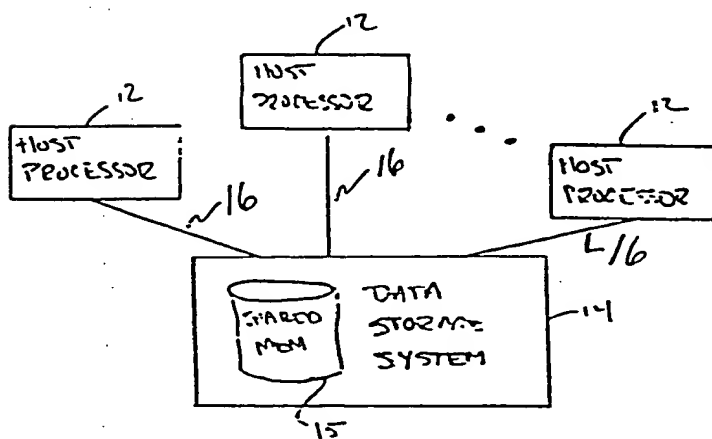


FIG. 1

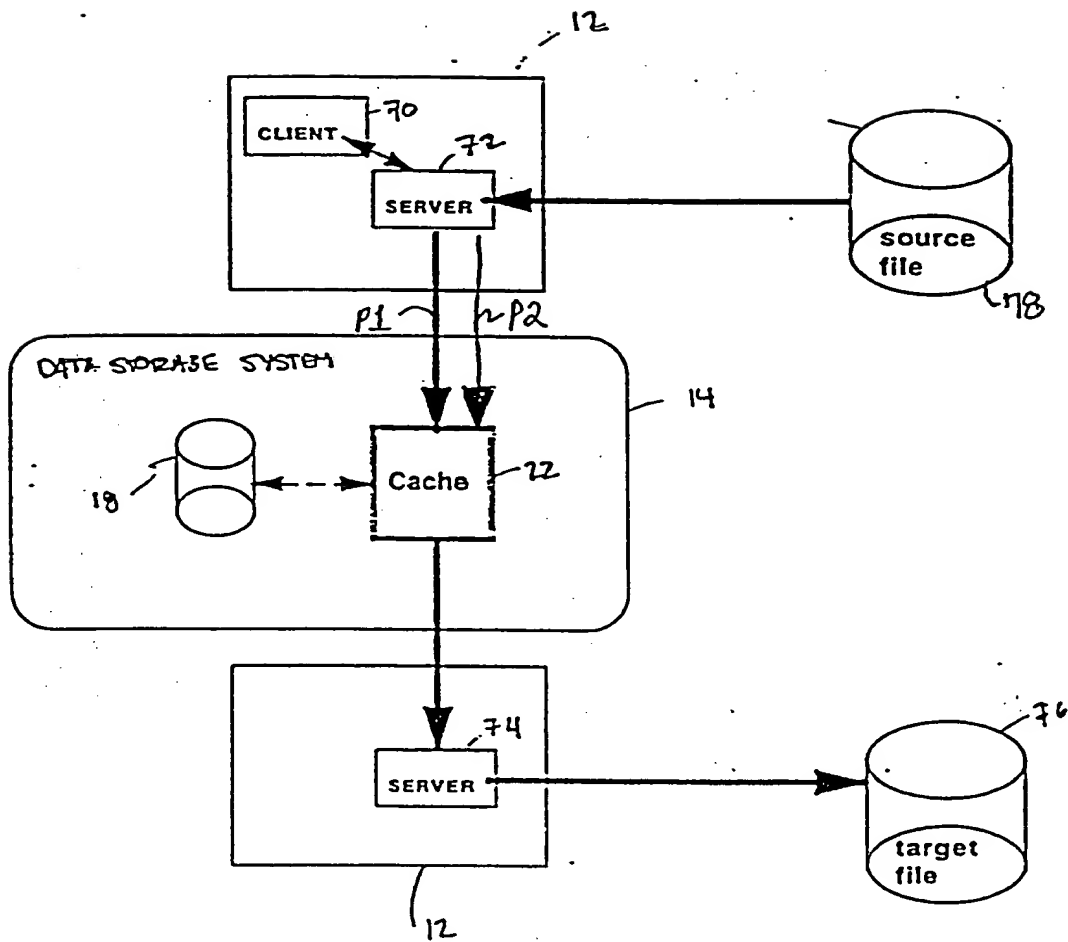


FIG. 3

| Field Name | Field Usage |
|---------------------------------|---|
| blk5_id | Block identifier, set to "MAS_EMC" on master device. Copies are also written to secondary devices with id set to "SEC_EMC" |
| blk5_dev_id | Entry number of master device in device table |
| blk5_seg_size | Size of transfer segment in blocks |
| blk5_version | Master Control Block structure version number |
| blk5_time_id | Creation time of master block |
| blk5_tot_seg_num | Total number of transfer segments |
| blk5_process_id_table_ptr | Pointer to start of process id table structure |
| blk5_secondary_device_entrynum | Number of entries in secondary device table |
| blk5_start_process_segment_ptr | Pointer to process segment pointer table structures |
| blk5_max_connections | Maximum number of connections allowed |
| blk5_mast_sec_start_ptr | Pointer to process segment pointer table structures |
| blk5_mast_sec_start_setment_ptr | Pointer to start of data segments |
| blk5_ptr_seg_per_process | Number of segments per process (connection) |
| blk5_maxptr | Maximum number of segments per process |
| blk5_unix_filename | UNIX file name of master device |

FIG. 4

| Field Name | Field Usage |
|------------------------|--|
| pro-process-id | Process (connection)id(=slot number) |
| pro_flag_process | Process flag field |
| pro_con_rc | Status code |
| pro_requestor | Name of requestor (initiator) process |
| pro_requestor_password | Password for requestor process |
| pro_requestor_type | OS Type of requestor |
| pro_requestee | Name of requestee (connector) process |
| pro_requestee_type | OS Type of requestee |
| pro_dtd | Command structure for initiator to connector comm. |
| InitM | Command structure for connector to initiator comm. |

FIG. 5

| Field Name | Field Usage |
|---------------------------|---|
| sec_dev_id | Device id (from configuration file) |
| sec_str_seg_ptr | Pointer to start of data segments for the device |
| sec_seg_number_for_device | Number of data segments on the device |
| sec_start_segment_number | Segment number of first segment on device (with the first segment on the first device being segment number 1) |

FIG. 6

| Field Name | Field Usage |
|-------------------------|--|
| ptr_process_segment_ptr | Starting block of data segment on disk |
| ptr_process_segment_flg | Segment status flag |
| ptr_process_block_seq | Segment sequence number |
| ptr_process_req_id | Process request sequence number |
| ptr_process_blk_read | Size of segment in blocks |

FIG. 7

Start

Initiator process reads the Process ID Table from the master device 300

Scan the table looking for an open process (connection) entry. 302

Is it an open entry? 304

Re. rve the master device and re-read the table into memory. 306

Initiator process writes certain data into the open entry in the table to request a connection. 308

Write the Process ID Table back to the master device and release the device. 310

Poll Process Id Table for indication that connector process has accepted the connection. 312

END

FIG 8

Start

Connector process periodically reads the Process ID Table from the master device.

330

Scan the table looking for an unacknowledged connection entry containing name of connector process.

332

When connector process finds an unacknowledged entry requesting connection to it, the connector process reserves and re-reads the table from the master device.

334

Set the PRO_FLAG_PROCESSING bit.

336

Write the Process ID Table back to the master device and release the master device.

338

END

FIG 9

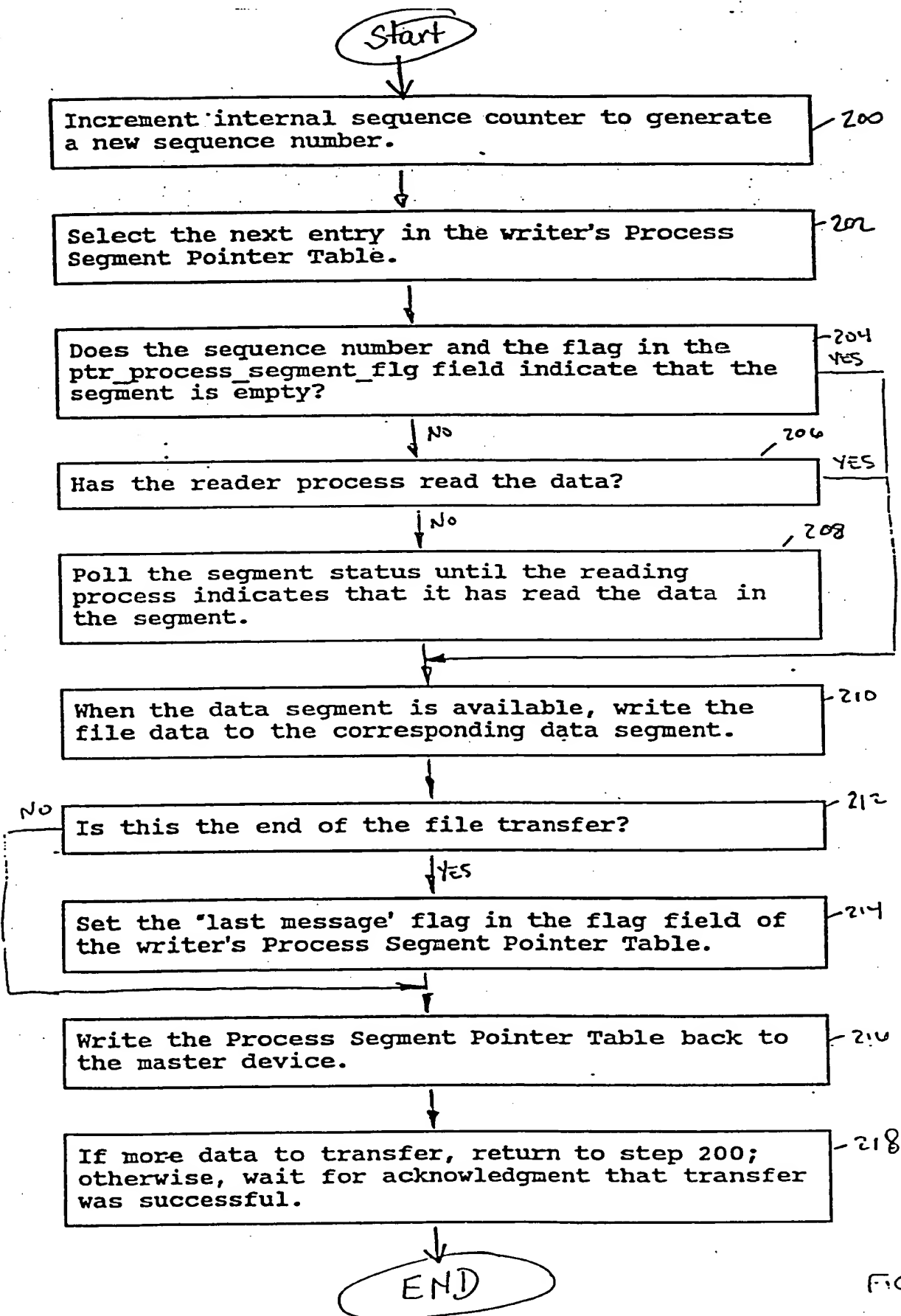


FIG. 10

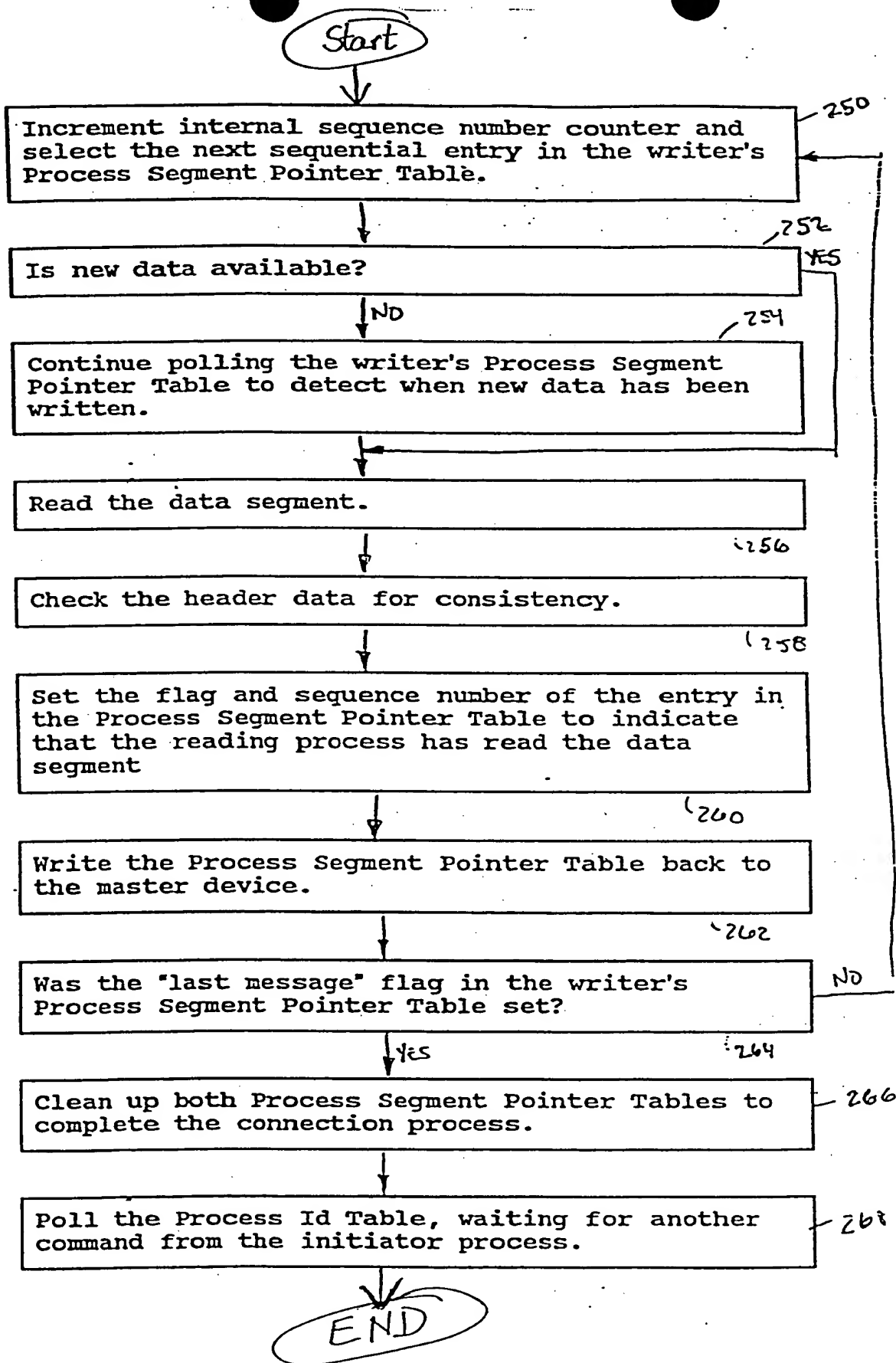


FIG 11

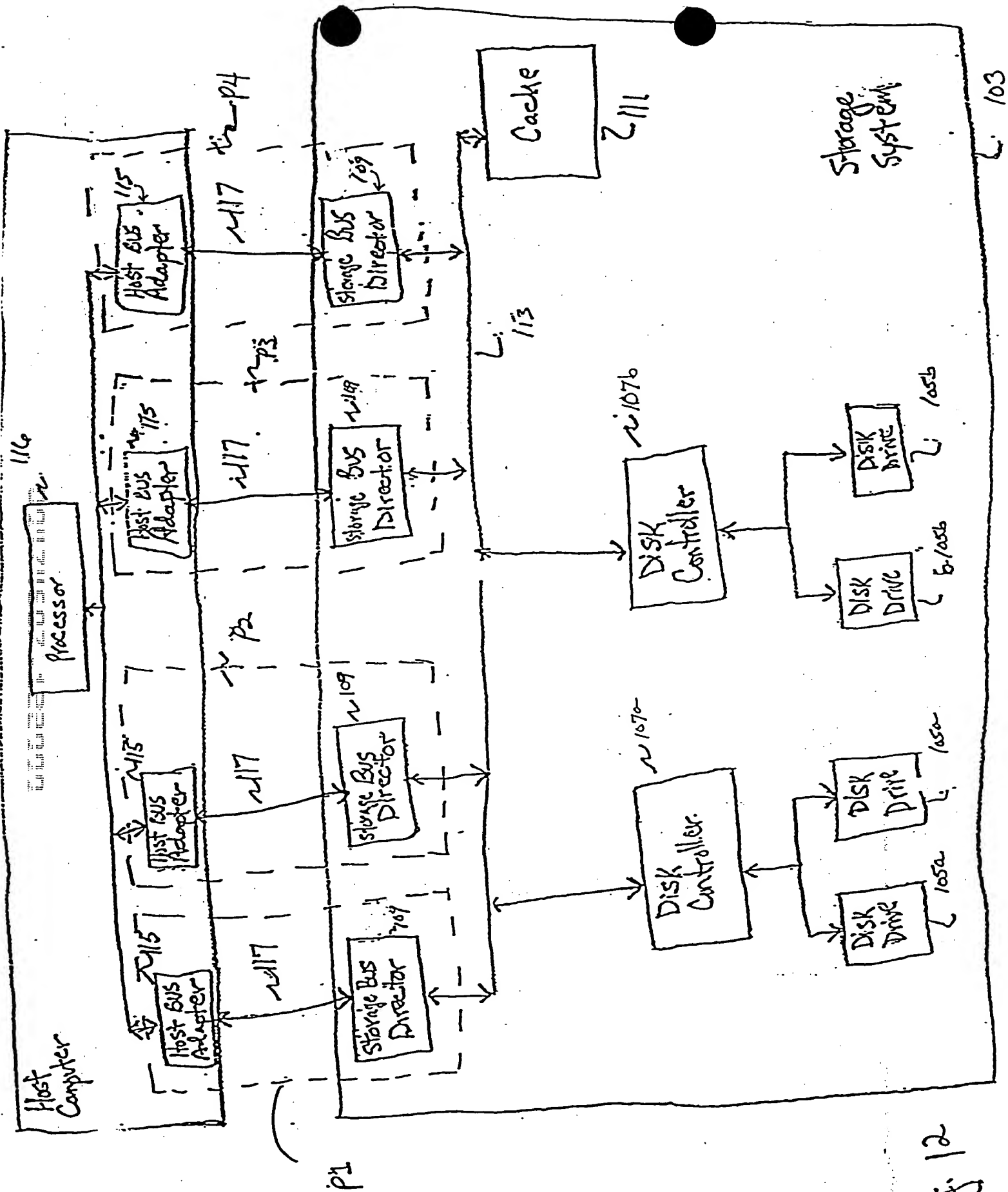


Fig. 12

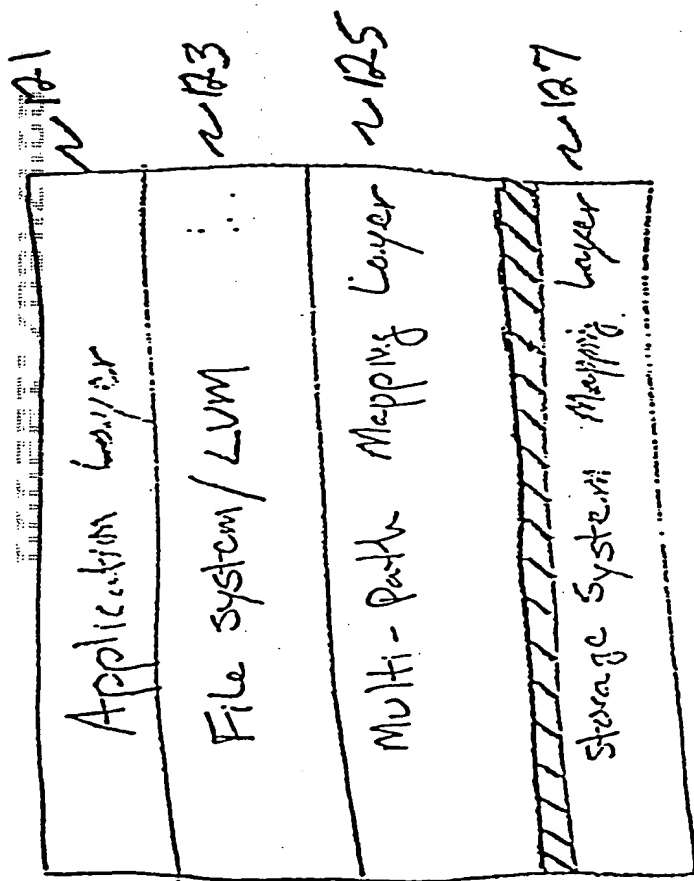


Fig. 13

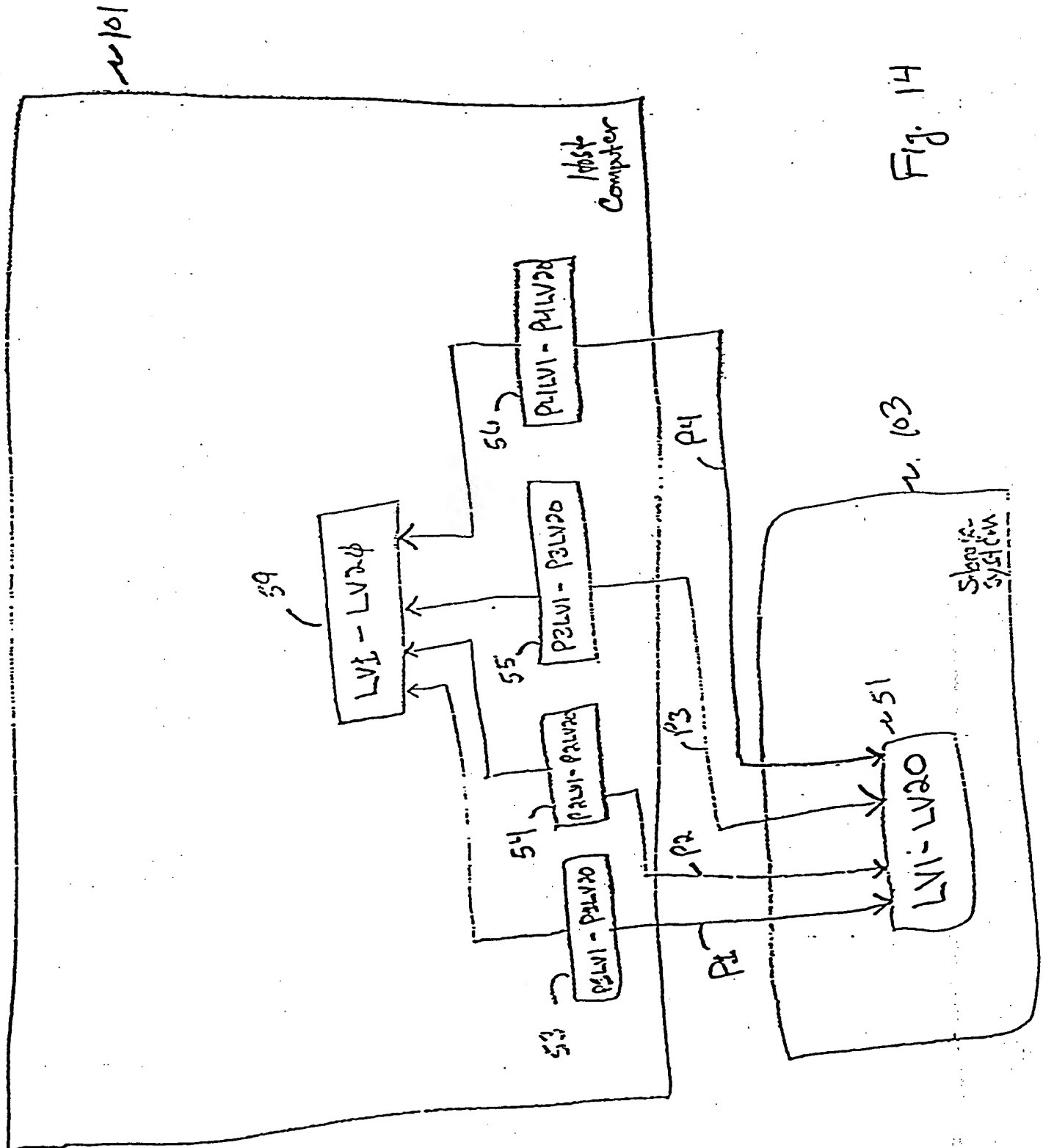


Fig. 14

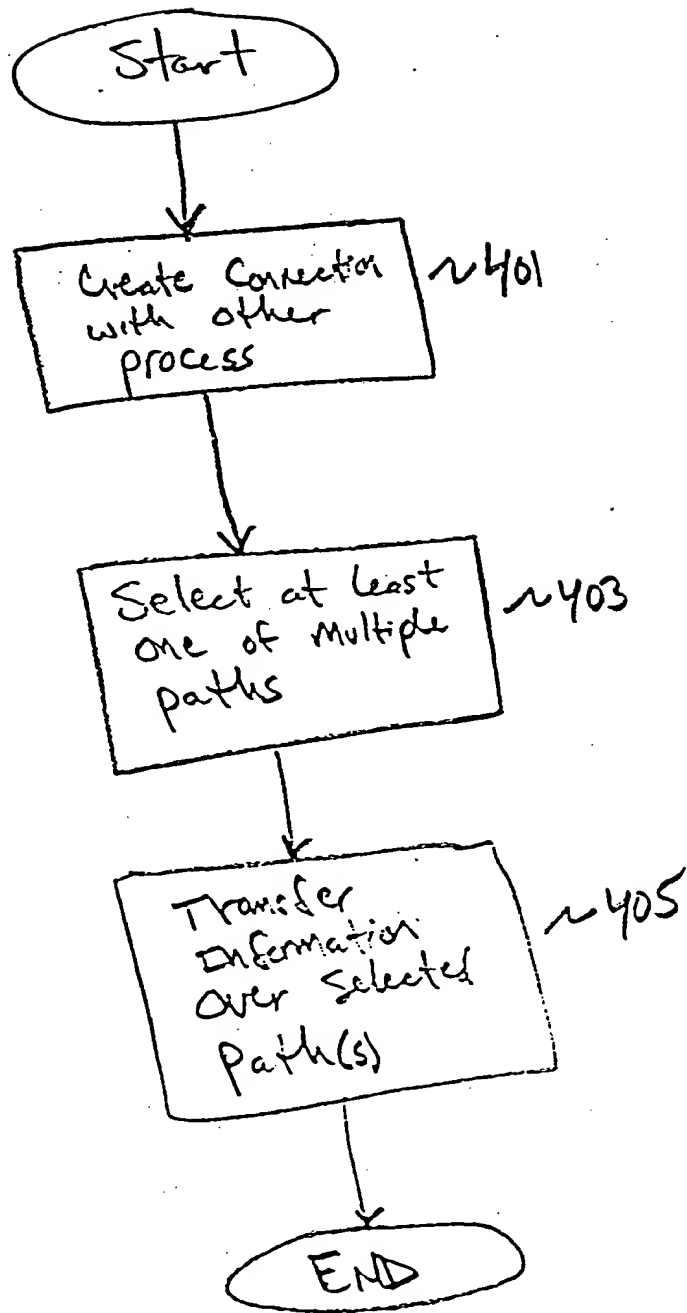


Fig 15